



US Army Corps  
of Engineers®

# Public Notice

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Public Notice No. 03-94

Date: December 17, 2003

Nashville District

Application No. 2002-02143 TVA RLR No. 147091(26a)/Land Use 150706

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Please address all comments to:

Nashville District Corps of Engineers, Regulatory Branch (Attn: Lisa R. Morris)

3701 Bell Road, Nashville, TN 37214

Telephone 615/369-7504 Fax 615/369-7501

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## JOINT PUBLIC NOTICE US ARMY CORPS OF ENGINEERS TENNESSEE VALLEY AUTHORITY

SUBJECT: Proposed Municipal Water Intake and Distribution Line

TO ALL CONCERNED: The project described below has been submitted for a Department of the Army (DA) permit pursuant to **Section 10 of the Rivers and Harbors Act of 1899** and a Tennessee Valley Authority (TVA) land use permit and approval pursuant to **Section 26a of the TVA Act**. The proposed deposit of fill material into waters/wetlands of the United States associated with back filling the distribution line described in this notice meets the criteria for authorization by Nationwide Permit (NWP) #12. A current water quality certification exists for such NWP #12 activities.

APPLICANT: City of Parsons

66 West 2<sup>nd</sup> Street

Parsons, TN 38363

LOCATION: Tennessee River Mile 136.0, Left Bank, Kentucky Lake, Decatur County, TN. (Quad - Perryville, TN; lat 35-36-47, lon 88-02-10; Tennessee River Navigation Chart No. 22). TVA Flowage Easement XTGIR-152E. See Exhibits A and B.

DESCRIPTION: The city's water treatment plant (constructed 1953) has been recently upgraded to handle a capacity of 5 million gallons per day (MGD). The proposed work consists of the construction of a new water intake system for the city to withdraw 2 MGD of raw water from the river with ultimate withdrawal set at 20 MGD (for future plant upgrades). The existing city intake located on Beech River has been determined deficient. The Tennessee Department of Economic and Community Development and the USDA Rural Utility Service would provide funding for the work. Tentative start date is February 2004 with a completion date of December 2004. Commercial sand and gravel dredging occurs upstream of Mile 136.0 and downstream of Mile 135.0.

The shoreline at the intake site is generally flat with a twenty-foot wide sandy beach. A strip of trees separates the beach from adjacent farmland. A 2-1/2 story intake building would be constructed on the shoreline within an area measuring approximately 50' x 50'. From the structure, a 24" diameter pipeline would extend into the river for about 100' (or 80' from the normal summer pool contour, EL 359). Approximately 65' of the line would be installed in a trench then backfilled and capped with riprap to preconstruction contours. The pipeline would daylight from the trench at EL 340 then extends the remaining 35' atop a concrete piling for stability. The intake itself would consist of a ductile iron 24" diameter intake pipe splitting into dual stainless steel T-intake screens. The top of the intake would be below Elevation 340, which is three feet lower than the maintained channel grade, Elevation 343, in this stretch of river.

In addition to the intake, a new 6.1-mile long 24" diameter ductile iron distribution pipeline on average 30' right-of-way (ROW) would be installed to carry raw water back to the existing city water treatment plant. The city is in the process of acquiring the necessary easements. The distribution line would cross six small intermittent creeks. From west to east, the crossings are Adams Branch, Herron Creek, Mire Branch, Crowell Branch, and two unnamed branches in the eastern most portion of the ROW. Creek crossings would be temporarily impacted during construction. However, once the waterline is buried, the creek banks and bottom would be returned to pre-construction conditions. According to the applicant, streams in this region have gravel bottoms with chert banks and tend to recover fairly rapidly.

While the majority of the line would follow existing road ROW and an old railroad bed for some distance, about 2,000' of wooded wetlands adjacent to Tinker Sand and Gravel Company's river terminal would be impacted. This area is predominately a hackberry/willow wetland with an average diameter of 10" to 14" trees. Once a minimized 20' ROW is cleared, the trees would be lost (0.92-acre). The city plans to backfill the pipeline/trench with saved wetland soils to preconstruction contours. Out of the wetland, the distribution line would cross the mouth of the Beech River for a distance of 260'. As shown on the plans, once the line is installed in the trench, the river bottom would be returned to pre-construction conditions. Upon exit, the distribution line would cross a smaller hackberry/willow/maple wooded wetland in 20' cleared ROW for a distance of about 1,000' (0.46-acres).

The applicant's professional engineer, TLM Associates, Jackson, TN, has designed the project from actual elevations obtained from a 2003 river bottom sounding. The proposed work would provide a cleaner more dependable supply of raw water for the city of Parsons, TN, and future anticipated growth in the area. The project would not require the relocation of any homes.

Plans of the proposed work are attached.

The decision whether to issue a permit will be based on an evaluation of the probable impacts including cumulative impacts of the activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources.

The benefit, which reasonably may be expected to accrue from the work, must be balanced against its reasonably foreseeable detriments. All factors, which may be relevant to the work, will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shore erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and, in general, the needs and welfare of the people. A permit will be granted unless the District Engineer determines it to be contrary to the public interest.

The Corps of Engineers is soliciting comments from the public; federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition, or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historical properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment (EA) and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and determine the overall public interest of the proposed activity.

An EA will be prepared by this office prior to a final decision concerning issuance or denial of the requested permits.

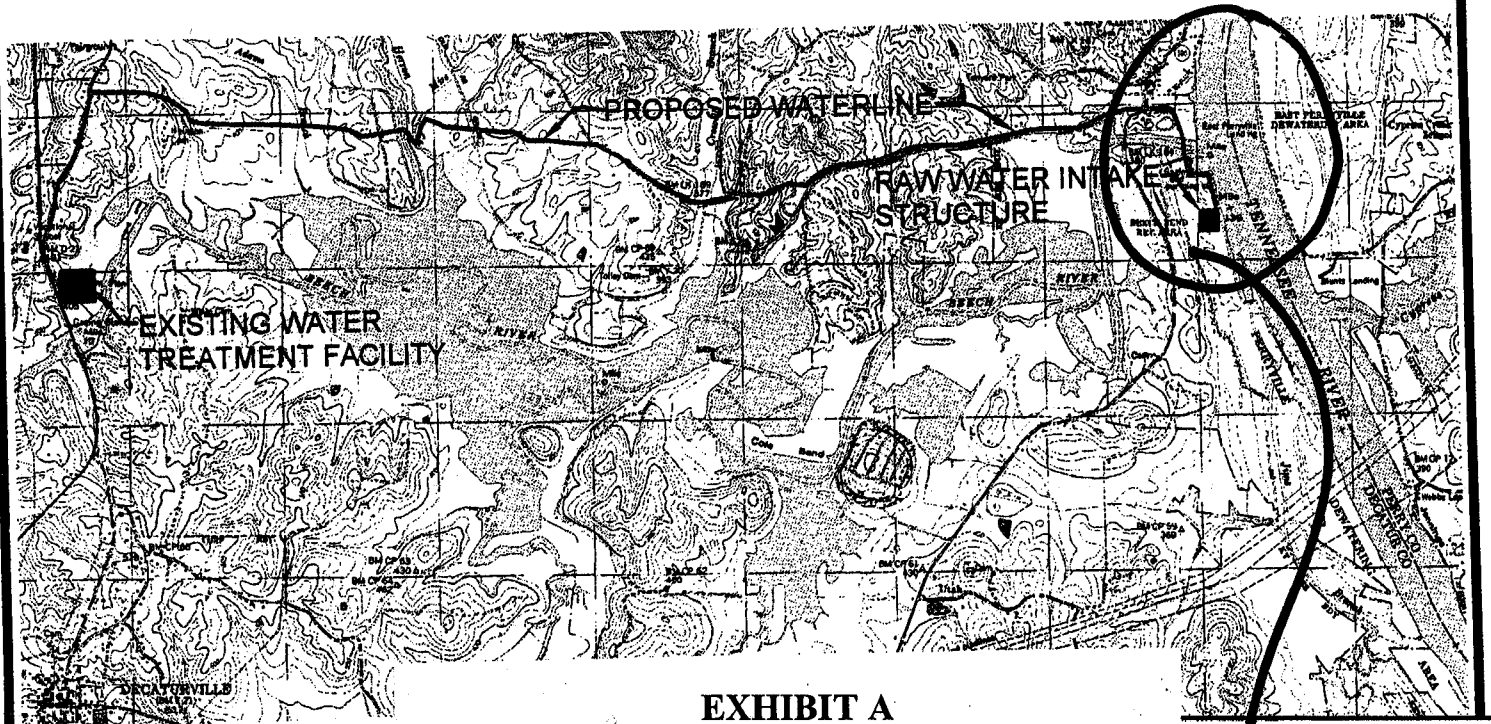
Preliminary consultation by the applicant with the Tennessee Historical Commission (THC) indicated the need for a Phase I Archaeological Study. Weaver & Associates, LLC, Memphis, TN conducted a survey and the report was submitted to the agencies in June of 2003. Since that time, the city redesigned the project. By letter dated August 18, 2003, the THC stated that the project area, as redesigned, contains no archaeological resources eligible for listing in the National Register of Historic Places and has no objection to implementation of the project. Based upon the information submitted, it is the opinion of the agencies that no properties listed in or eligible for the National Register are known which would be affected by the proposed work. This review constitutes the full extent of cultural resources investigations unless comment to this notice is received documenting that significant sites or properties exist which may be affected by this work, or that adequately documents that a potential exists for the location of significant sites or properties within the permit area. Copies of this notice are being sent to the THC.

Preliminary consultation by the applicant with the US Fish and Wildlife Service (USFWS) indicated potential impact on three federally listed endangered species (the Gray Bat and two mussel species, Orange foot pimpleback and Ring pink). Surveys conducted for the applicant by the Tennessee Wildlife Resources Agency (TWRA) indicated no affect to the Gray Bats. A river bottom mussel survey conducted by TWRA for the applicant found neither of the two mussel species in the impact area of the proposed intake. By letter dated August 8, 2003, the USFWS stated that the proposed project is not likely to affect the gray bat, orange-foot pimpleback mussel, and ring pink mussel. Further USFWS stated that the requirements of Section 7 of the Endangered Species Act (ESA) have been fulfilled for these species and no further consultation is needed at this time. Based upon available information, it is the agencies opinion that the proposed work would not destroy or endanger any federally-listed, threatened, or endangered species or their critical habitats, as identified under the Endangered Species Act. Therefore, we have reached a no effect determination and initiation of formal consultation procedures with the USFWS is not planned at this time.

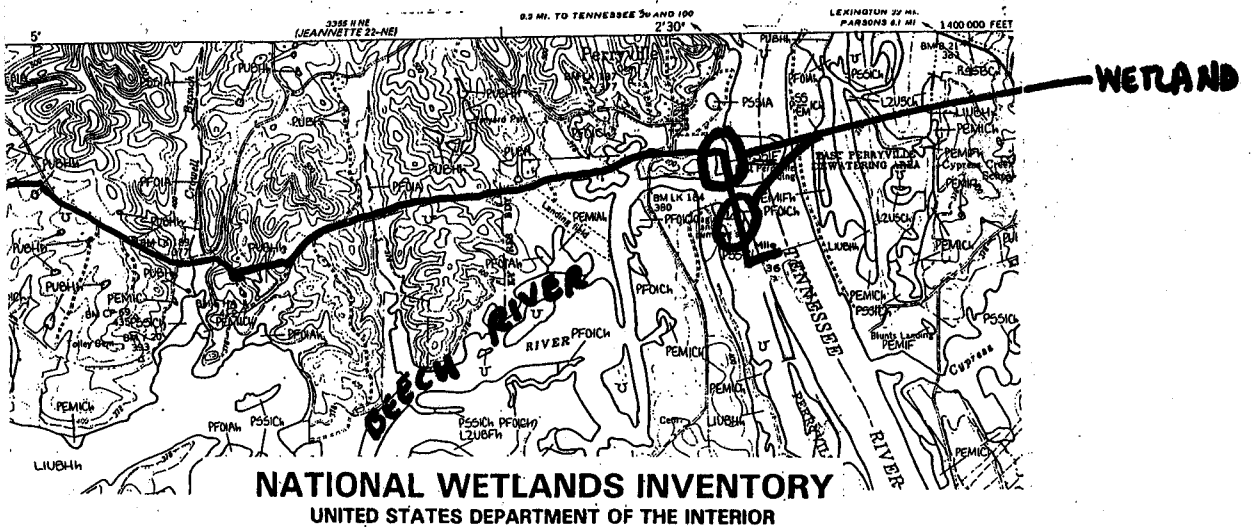
In addition to the DA and TVA permits required, other federal, state, and/or local approvals may be required for the proposed work. The intake structure would be located on TVA fee lands and use of easement approval by the TVA board is required.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for hearings shall state, with particularity, the reasons for holding a hearing. Written statements received in this office on or before January 16, 2004, will become a part of the record and will be considered in the determination.

Any response to this notice should be directed to the Regulatory Branch, Attn: Lisa Morris, at the above address, telephone 615/ 369-7504. It is not necessary to comment separately to TVA since copies of all comments will be sent to that agency and will become part of its record on the proposal. However, if comments are sent to TVA, they should be mailed to Mr. Randy Lowe, P.O. Box 280, Paris, TN 38242, telephone 713/641-2002.



**EXHIBIT A**  
**P/N 03-94 FILE NO. 200101475**  
**PERRYVILLE, TN QUAD**  
**LOCATION MAP**



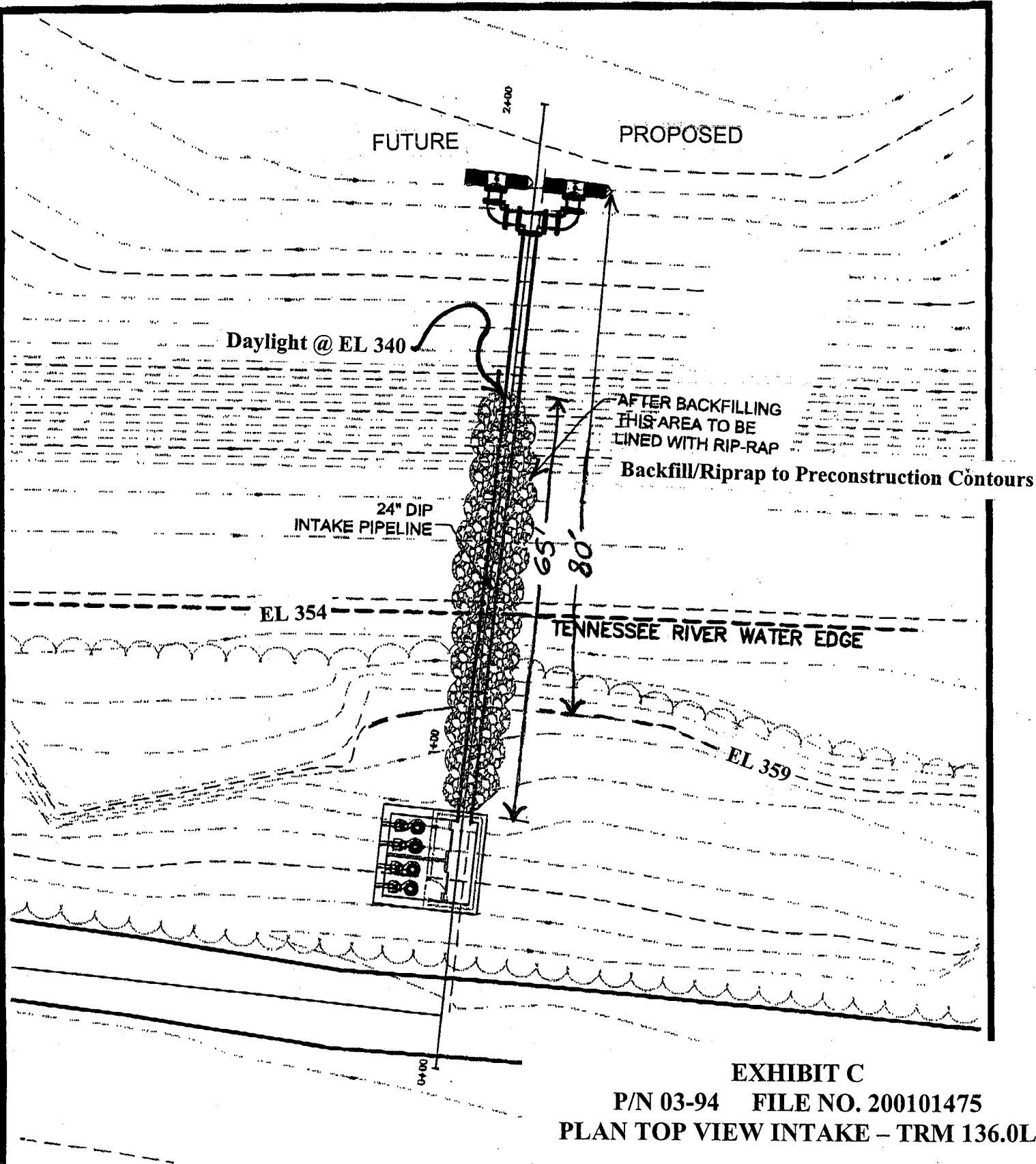
117 East Lafayette Street  
 Jackson, Tennessee 38301  
 Phone: (731)-988-9840  
 Fax No: (731)-988-9959

**Location Map**  
**Raw Water Intake Pipeline**  
**FOR**  
**City of Parsons**  
**Parsons, TENNESSEE**

APPROX GRAPHIC SCALE  
 0 4000  
 1 inch = 4000 ft.


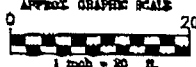


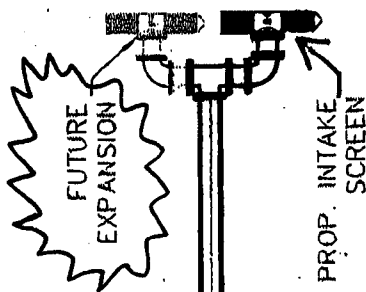




# EXHIBIT C

P/N 03-94 FILE NO. 200101475  
PLAN TOP VIEW INTAKE - TRM 136.0L

 <p>117 East Lafayette Street Jackson, Tennessee 38501 Phone: (731)-988-9840 Fax No: (731)-988-9869</p>	<p align="center"><b>INTAKE STRUCTURE TOP VIEW</b> <b>RAW WATER INTAKE PIPELINE</b> <b>FOR</b> <b>CITY OF PARSONS</b> <b>DECATUR COUNTY, TENNESSEE</b></p>	<p align="center">APPROX GRAPHIC SCALE</p>  <p>1 inch = 20 ft.</p>
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TOP VIEW



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378

372

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TN RIVER  
SUMMER POOL  
ELEV 359

TN RIVER  
WINTER POOL  
ELEV 354

Daylight @  
EL 340

Backfill/Riprap to Preconstruction  
Contours

24" DIP  
INTAKE LINE

RIVER BOTTOM  
ELEVATION

EXHIBIT D

P/N 03-94 FILE NO. 200101475

PLAN SIDE VIEW INTAKE - TRM 136.0L

Concrete Pile

80' FROM EL 359

1+00 PROFILE VIEW

0+50

1+50

2+00

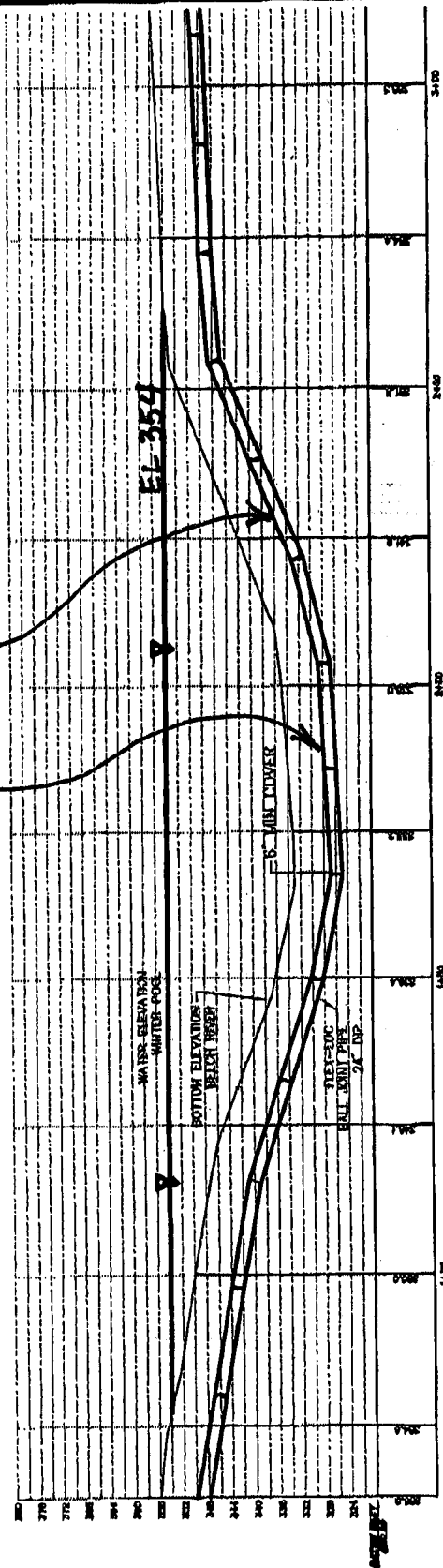
**TLM**  
117 East Lafayette Street  
Jackson, Tennessee 38301  
Phone: (731)-688-9840  
Fax No: (731)-688-9959

INTAKE STRUCTURE TOP VIEW & PROFILE  
**RAW WATER INTAKE PIPELINE**  
FOR  
**CITY OF PARSONS**  
DECATUR COUNTY, TENNESSEE

APPROX GRAPHIC SCALE  
1" = 20'  
1" = 80'  
1" = 160'



Backfill to Preconstruction Contours  
24" Diameter Water Distribution Line



PROFILE VIEW OF  
BEECH RIVER CROSSING  
SCALE 1"=30'

EXHIBIT E  
P/N 03-94 FILE NO. 200101475  
BEECH RIVER DISTRIBUTION LINE CROSSING PLANS  
MOUTH AT TRM 135.7L



117 East Lafayette Street  
Jackson, Tennessee 38301  
Phone: (731)-988-8840  
Fax: (731)-988-8859

PROFILE OF BEECH RIVER CROSSING  
RAW WATER INTAKE PIPELINE  
FOR  
CITY OF PARSONS  
DECATUR COUNTY, TENNESSEE

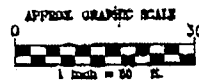
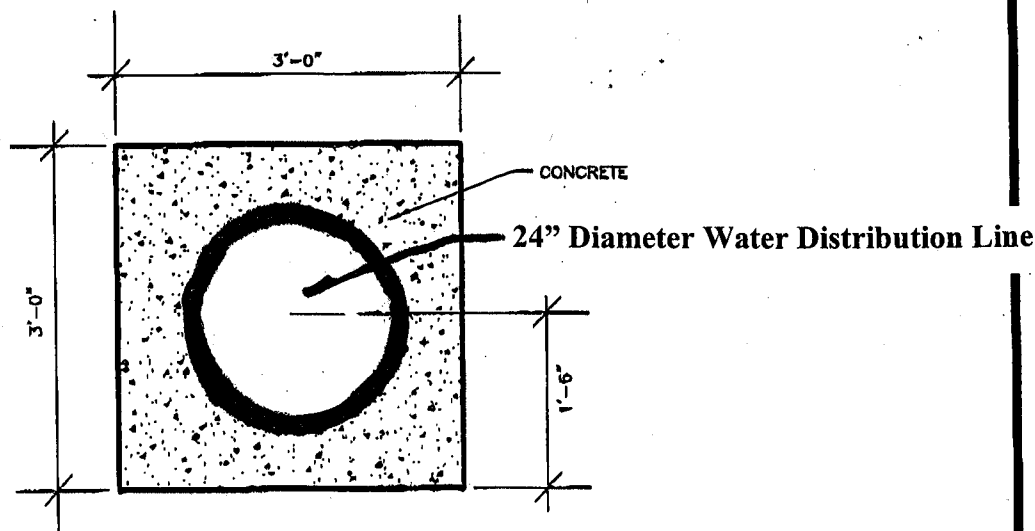
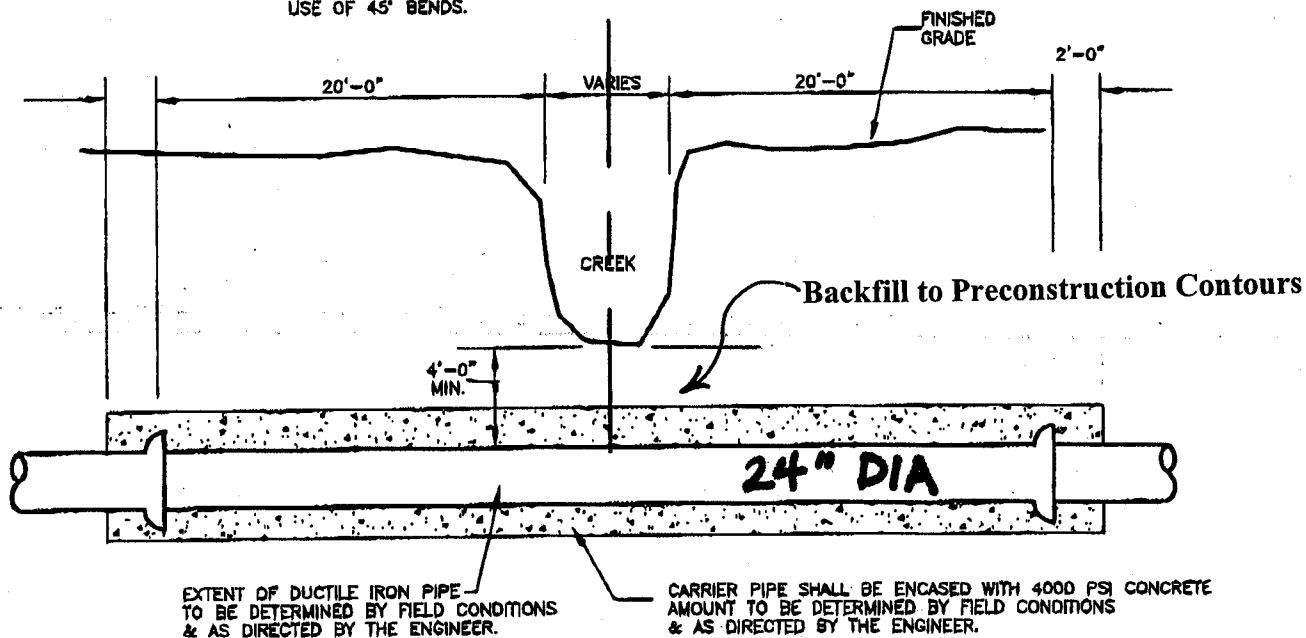


EXHIBIT 1  
P/N 03-94 FILE NO. 200101475  
TYPICAL CREEK CROSSING PLANS

NOTES

1. CENTER A JOINT OF DUCTILE IRON PIPE AT CENTERLINE OF CREEK.
2. AS FIELD CONDITIONS PERMIT AND WHERE APPROVED BY ENGINEER, THE CONTRACTOR MAY EXCAVATE PIPELINE TO A DEEPER CUT WHEN APPROACHING CREEK TO PROVIDE FOR INSTALLATION WITHOUT USE OF 45° BENDS.



TYPICAL CONCRETE ENCASED CREEK CROSSING DETAIL

N.T.S.



TYPICAL CREEK CROSSING DETAIL  
RAW WATER INTAKE PIPELINE  
FOR  
CITY OF PARSONS  
DECATUR COUNTY, TENNESSEE

N.T.S